

TRANS TECH CONSULTANTS

Environmental Compliance Services Engineers • Geologists • Planners License # 697833 (A-Haz)

April 28, 2005 Job No. 1543.01

Mr. Galen Hathaway P.O. Box 100 Willits, California 95490-0100

Subject:

Work Plan, Monitoring Well Abandonment

150 Main Street, Willits, California NCRWQCB Case #1TMC537

Dear Mr. Hathaway:

This letter presents the Trans Tech Consultants (TTC) Work Plan for the abandonment of the three groundwater monitoring wells located at 150 Main Street, in Willits, California. The approximate site location is shown on the attached Site Location Map, Plate 1. Case closure was recommended in TTC's 1st Quarter 2005 Quarterly Monitoring Report, dated February 15, 2005 and subsequently approved by Colleen Stone of the North Coast Regional Water Quality Control Board (NCRWQCB).

Proposed Scope of Work

In order to proceed with the site closure process, we propose to abandon the three onsite monitoring wells (MW-1 through MW-3). The monitoring well locations and general site features are shown on the attached Site Plan, Plate 2. The monitoring well abandonment will be achieved by first removing the metal Christy boxes that protect the well. After the Christy boxes are removed, the wells seal and sand pack will be over-drilled using hollow stem auger equipment. The PVC well casing will be removed from the hole and the holes will then be tremie grouted with a cement bentonite grout. An attempt will be made to separate the metal Christy boxes, the concrete seals and the PVC casings from the drill cuttings for ordinary disposal. The remainder of the drill cuttings will be stored onsite in 55 gallon DOT approved drums pending disposal. Disposal documentation will be provided to the NCRWQCB following disposal. One 55-gallon drums of purge water also remains onsite and will be disposed of concurrently with the soil. The well abandonment will be performed by ClearHeart Drilling LLC, a C-57 licensed contractor, in accordance with state and local guidelines. Please refer to our attached Site Safety Plan for site specific health and safety issues.

Closure

Upon completion of the monitoring well abandonment and soil/ water disposal, we will prepare a brief report describing our field activities. Our report will include a description of the well abandonment activities, disposal documentation, as well as a map showing the locations of the abandoned monitoring wells.

We appreciate the opportunity to be of service to you and trust that this provides the information you require at this time. If you have any questions or require any additional information, please feel free to contact us at (707) 575-8622 or www.transtechconsultants.com.

Exp. 05/31/05

Sincerely,

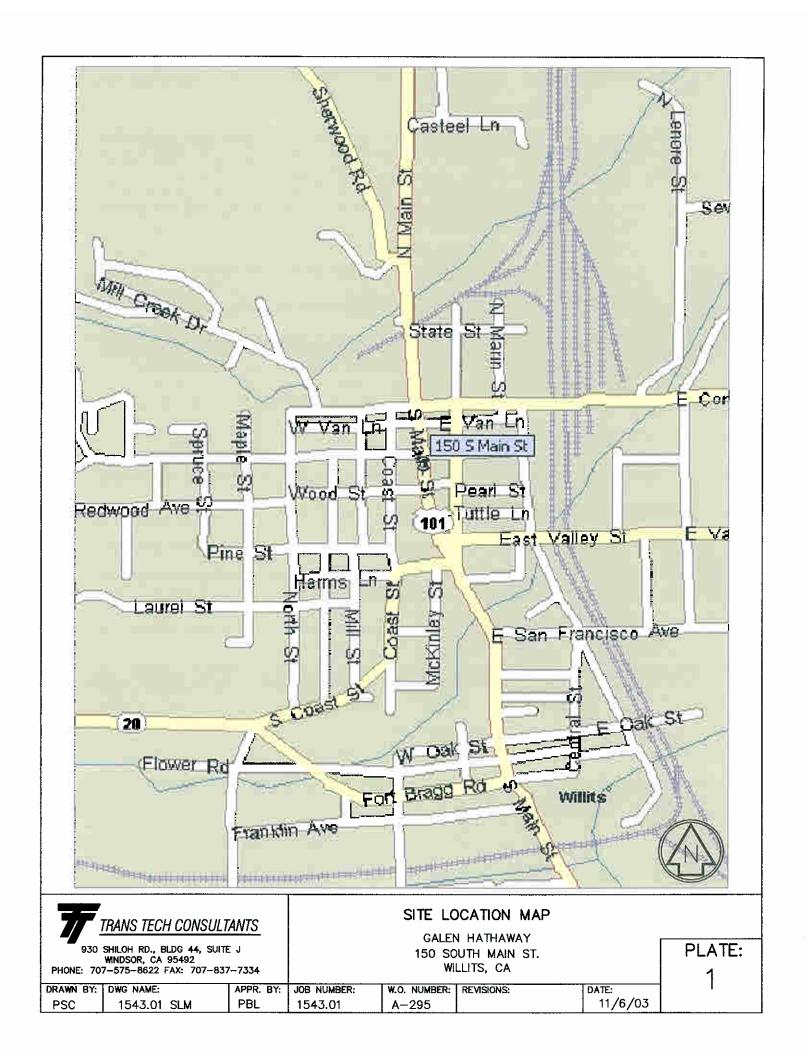
TRANS TECH CONSULTANTS

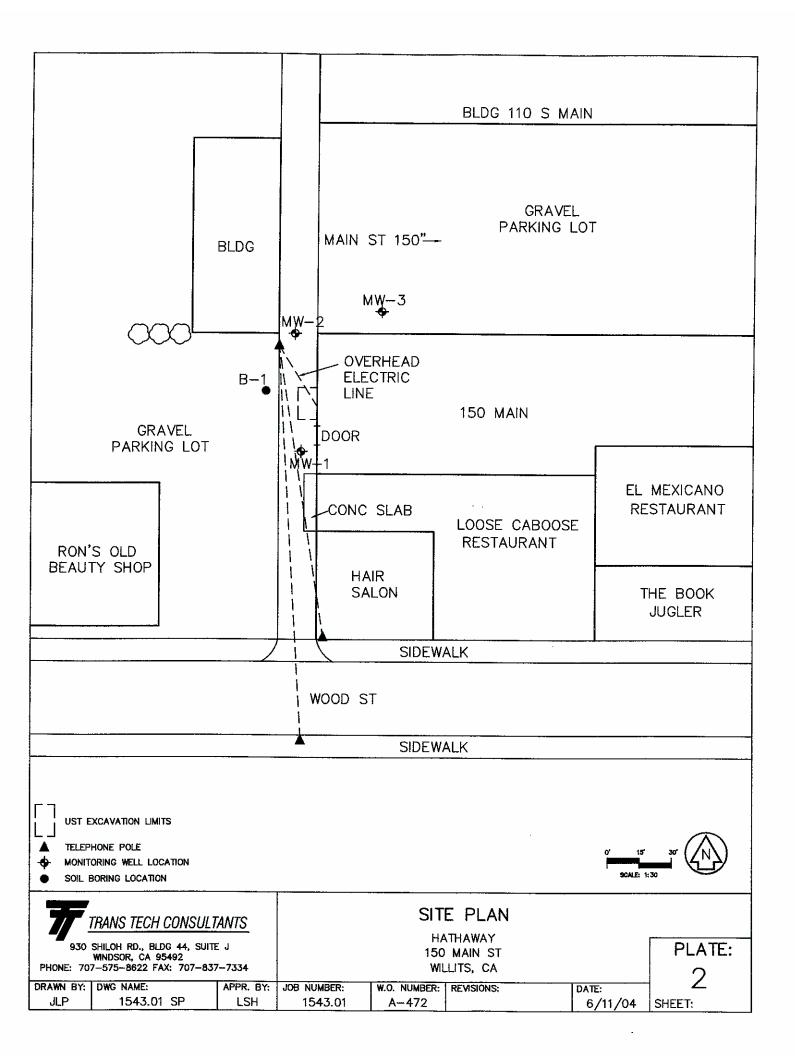
Lee Hurvitz PG 7573

Professional Geologist

Attachments: Site Location Map, Plate 1

Site Plan, Plate 2 Site Safety Plan Distribution List







TRANS TECH CONSULTANTS (TTC) SITE SAFETY PLAN Job No. 1543.01 April 2005

Project Location:

150 Main Street, Willits, California

Job Number:

1132.01

Client:

Mr. Galen Hathaway

P.O. Box 100

Willits, California 95490

BACKGROUND

On August 11, 2003, EnTerra, Inc. of Willits, California mobilized to the site to remove one underground storage tank (UST). The tank reportedly held diesel fuel, had a capacity of approximately 500 gallons, and had not been used since the mid 1980's. The location of site and general site features are presented on the attached Site Plan, Plate 2.

A backhoe was used to uncover the UST. The UST was then removed from the excavation under the direction of Mr. Wayne Briley of the Mendocino County Division of Environmental Health (MCDEH) and inspected. Significant rust and pitting were noted on the under side of the UST.

Following removal, discolored soil with a strong diesel fuel odor was noted along the base and eastern limit of the excavation. The eastern limit of the excavation was bordered by a concrete foundation supporting a permanent wood framed structure. Approximately 20 cubic yards of apparently impacted soil was removed from the tank pit excavation. The excavation extended to a depth of approximately 9 feet below ground surface (bgs). One soil sample was collected from each of the sidewalls at the base of the excavation. Additionally, one two-point composite sample was collected from the soil stockpile for disposal profiling. The soil samples collected from the tank pit and soil stockpile were analyzed for total petroleum hydrocarbons (TPH) as diesel (d), and benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Methods 5030/8015. Laboratory results of the samples colected indicated the presence of TPH-d in soil. Three monitoring groundwater wells were subsequently installed and sampled for four consecutive quarters.

SITE DESCRIPTION

The site is located in a commercial and retail area of downtown Willits. The building on the subject property is currently vacant and is undergoing renovations. The tank excavation is closely bounded on the east side by a building, and to the north, south, and west by an alleyway.

FIELD WORK

The field work will comprise abandoning three monitoring wells and two soil borings at the locations shown on the Site Plan, Plate 2. The well abandonment will be performed by overdrilling with hollow stem augers.

LEVEL OF PROTECTION

Equipment to protect the body from contact with chemical hazards has been categorized by the Environmental Protection Agency into levels A, B, C, & D. Level A equipment is used when the highest level of protection is needed; Level D equipment is used when minimum protection is needed. The chemical hazard associated with petroleum hydrocarbons is typically low and Level D protection (see equipment list below) is adequate. In case of high levels of contamination, an upgrade to Level C protection equipment may be advised. Level C and D equipment are listed below.

Level C Equipment

Level C equipment is used when the type of airborn substance is known, concentration measured, criteria for air purifying respirators (APR) is met, and skin and eye exposure is unlikely. The required equipment for this level of protection is an NIOSH/MSHA approved APR, chemical resistant clothing, chemical resistant inner and outer gloves, chemical resistant boots with steel toe and shank, hard hat, and eye protection if wearing a half face APR.

Level D Equipment

Level D equipment is primarily a work uniform, it should not be used on any site where respitroy or skin hazards exist. The required equipment for this level of protection is a dust mask or no respitory protection, eye protection, gloves, Coveralls, chemical resistant boots or shoes with steel toe and shank, and hard hat. Tyvex overalls and Solvex or equivalent gloves are recommended. Level D equipment is required for this investigation.



EQUIPMENT REQUIRED FOR THIS INVESTIGATION

Level D equipment is required for this investigation. Normal work clothing and safety glasses may be worn for site work. Nitrile gloves, chemical resistant boots or shoes with steel toe and shank, and hard hat are also required. Air monitoring will be performed with a combustable gas meter during the investigation to determine weather an upgrade to Level C protection is advisable.

EQUIPMENT DECONTAMINATION

Decontaminate sampling equipment by steam cleaning and/or washing with a TSP wash and rinsing with de-ionized water.

SITE RESOURCES

Drinking water, telephone, and toilet facilities are available onsite.

EMERGENCY EQUIPMENT

Eyewash, emergency rinse water, first-aid kit, fire extinguisher, and respirators will be carried in the company vehicle onsite.

SITE SPECIFIC SAFETY HAZARDS

The site specific safety hazards associated with this investigation include the following

- 1) Proximity to traffic
- 2) Slips trips falls
- 3) Underground utility hazards when drilling
- 4) Overhead utility hazards
- 5) Hazards associated with heavy equipment used during drilling procedures



TELEPHONE NUMBERS

Fire Department, Sheriff, Paramedics: 911

Hospital: Frank R. Howard Memorial Hospital

1 Madrone

Willits, California (707) 459-6801

Client Contact: Mr. Galen Hathaway

(707) 459-4139

Poison Control Center: (800) 233-3360

(415) 821-8324

Project Manager: Bill C. Wiggins

Office: (707) 575-8622 Cell: (707) 478-2097

Safety Officer: Lee S. Hurvitz

Office: (707) 575-8622 Home: (707) 799-9482

EMERGENCY ROUTE: Map Attached

PROJECT PERSONNEL LIST AND SAFETY PLAN DISTRIBUTION RECORD

TTC Employees:

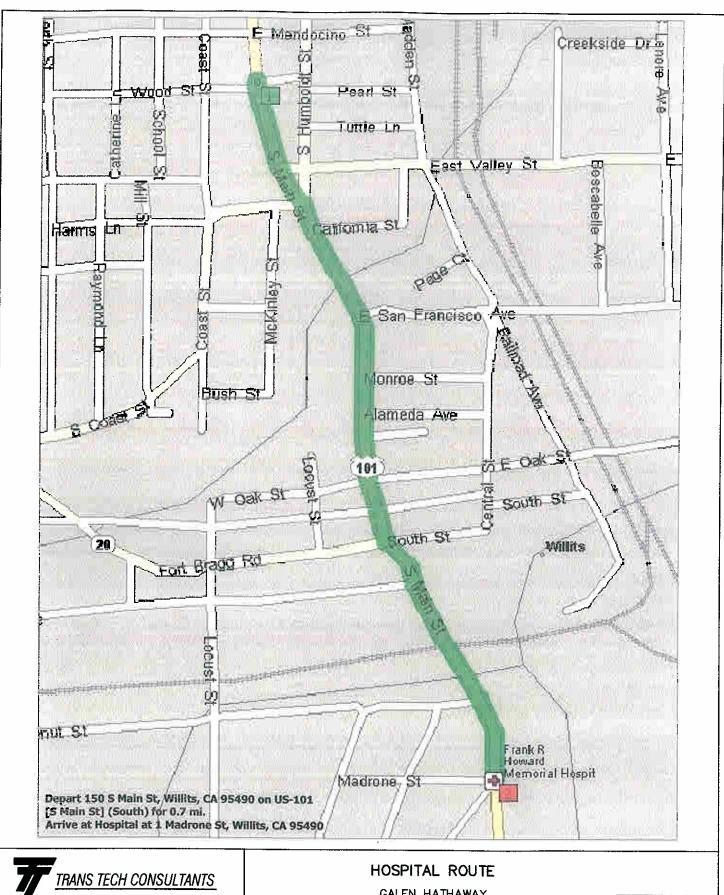
All project staff must sign, indicating they have read and understand the Safety Plan. A copy of this Safety Plan must be made available for their review and readily available at the job site.

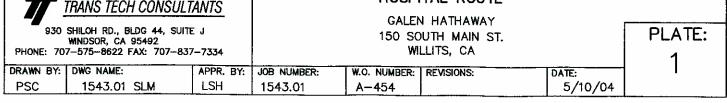
Employee Name	Date of H&S <u>Training</u>	Date <u>Distributed</u>	<u>Signature</u>	
			-	
			· 	
Contractors and Subco	ntractors:			
A copy of this Safety Plan by activities covered und comply with applicable C	ler the scope of th	is safety plan. A	all contractors and	subcontractors must
Firm Name		Contact Person		Date <u>Distributed</u>



<u>Health</u>	and	Safety	Meeting:
	anu	DATEL	waccume.

All persons Thereafter,	nel part a brief t	icipating in the pro ailgate safety meeting	oject must receiving is required befo	ve initial health ore beginning w	and safety orientations ork each day.	on.
<u>Date</u>	Date Name of At		Name of Fin	<u>rm</u>	<u>Initials</u>	
	_					
Visitor Log	; :					
It is TTC po are required	licy that I to sign	any visitor must furn the visitor log and c	nish his/her own pe comply with the S	ersonal protectiv afety Plan requi	ve equipment. All visito rements.	rs
Name of Vi	sitor	Firm Name	Date of Visit	Signature		
This plan is	is prepa	ared to inform all ne potential hazards	field personnel, on the site.	including TTC	C contractors and T7	C
PLAN PRE	PARED	BY:				
PLAN APP	ROVED	at 1	gnature	7	Date /28/05	
			gnature		Date	





Distribution List
Work Plan-Monitoring Well Abandonment
150 Main Street
Willits, California
April 28, 2005
Job No. 1543.01

Ms. Colleen Stone North Coast Regional Water Quality Control Board 5550 Skylane Blvd., Suite A Santa Rosa, California 95403

